



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date 5/31/2017	EPA Reg No./File Symbol 91664-1	Page 1 of 7
Applicant's/Registrant's Name & Address Ag NuBio Inc., 11125 N. Ambassador Drive, Ste. 120 Kansas City MO 64153	Product Biorend	

Ingredient Chitosan Technical (PC Code 128930)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6302	Color	49626901	Ag NuBio	Own	
830.6303	Physical State	49626901	Ag NuBio	Own	
830.6304	Odor	49626901	Ag NuBio	Own	
830.6313	Stability	44292301	Glycogenesys Inc	OLD	
830.6314	Oxidation/Reduction: Chemical incompatibility	49626901	Ag NuBio	Own	
830.6315	Flammability	49626901	Ag NuBio	Own	
830.6316	Explosibility	49626901	Ag NuBio	Own	
830.6317	Storage Stability		AgNuBio	In Progress	
830.6319	Miscibility	49626901	Ag NuBio	Own	
830.6320	Corrosion Characteristics	49626901	Ag NuBio	In Progress	
830.6321	Dielectric Breakdown Voltage	49626901	Ag NuBio	Own	
830.7000	pH	49626901	Ag NuBio	Own	
830.7050	UV / Visible	49626901	Ag NuBio	Own	
830.7100	Viscosity	49626901	Ag NuBio	Own	
830.7200	Melting Range	49626901	Ag NuBio	Own	

Signature 	Name and Title Dr. Matthew Brooks, Regulatory Consultant	Date 5/31/2017
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Applicant's/Registrant's Name & Address Ag NuBio 11125 N. Ambassador Drive, Ste 120 Kansas City, MO 64153	Product Biorend	

Ingredient Chitosan (PC Code 128930)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7220	Boiling Range	49626901	Ag NuBio	Own	
830.7300	Bulk Density / Specific Gravity	49626901	Ag NuBio	Own	
830.7370	Dissociation Constant in Water	49626901	Ag NuBio	Own	
830.7520	Particle Size / Distribution	49626901	Ag NuBio	Own	
830.7550	Partition Coefficient	49626901	Ag NuBio	Own	
830.7840	Water Solubility	49626901	Ag NuBio	Own	
830.7950	Vapor Pressure	49626901	Ag NuBio	Own	
880.1200	Description of Formulation Process	49626901	Ag NuBio	Own	
880.1400	Discussion of Impurities	49626901	Ag NuBio	Own	
830.1700	Preliminary Analysis	49626901	Ag NuBio	Own	
830.1750	Certified Limits	49626901	Ag NuBio	Own	
830.1800	Enforcement Analytical Method	49845201	Ag NuBio	Own	
880.1100	Product Identity and Composition	49626901	Ag NuBio	Own	
880.1200	Description of Materials Used to Produce the Product	49626901	Ag NuBio	Own	
880.1200	Description of Production Process	49626901	Ag NuBio	Own	

Signature 	Name and Title Dr. Matthew Brooks, Regulatory Consultant	Date 5/31/2017
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Ingredient Chitosan (PC Code 128930)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1100	Acute Oral Toxicity -Rat	49626907	Ag NuBio	Own	
870.1200	Acute Dermal toxicity	49626906	Ag NuBio	Own	
870.1300	Acute inhalation toxicity- Rat	49626905	Ag NuBio	Own	
870.2400	Primary Eye Irritation- Rabbit	49626904	Ag NuBio	Own	
870.2500	Primary dermal Irritation	49626903	Ag NuBio	Own	
870.2600	Dermal Sensitization	49626902	Ag NuBio	Own	
	Hypersensitivity Events	44185814	Glycogenesys	OLD	
870.3100	90-Oral	47279603	Ag NuBio	Own	
870.3250	90-Day Dermal Rat	47279603	Ag NuBio	Own	
870.3700	Prenatal Development toxicity - rat	47362201	Ag NuBio	Own	
870.3465	90 Day Inhalation-Rat	47362201	Ag NuBio	Own	
880.3550	Immunotoxicity	47362201	Ag NuBio	Own	
870.5100	Bacterial reverse mutation assay	46790203	IR-4	PAY	
870.5300	In vitro mammalian cell assay	46790203	IR-4	PAY	
870.5375	In vitro mammalian cell assay	46790203	IR-4	PAY	
Signature	Name and Title Dr. Matthew Brooks, Regulatory Consultant			Date 5/31/2017	



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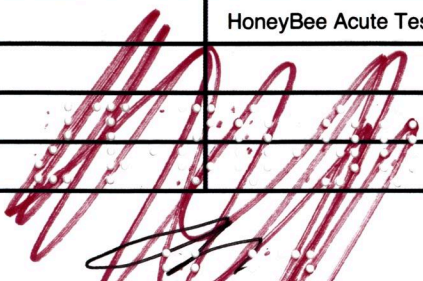
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Applicant's/Registrant's Name & Address Ag NuBio 11125 N. Ambassador Drive, Ste 120 Kansas City, MO 64153	Product Biorend	

Ingredient Chitosan Technical (PC Code 128930)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.2100	Avian oral toxicity	47362201	Ag NuBio	Own	
850.2200	Avian dietary toxicity	47362201	Ag NuBio	Own	
850.1075	Freshwater fish acute toxicity	46790205	IR-4	PAY	
850.1010	Acute toxicity freshwater invertebrates (daphnia)	46790205	IR-4	PAY	
850.4100	Seedling Emergence	46790205	IR-4	PAY	
850.4150	Vegetative Vigor (algal)	46790205	IR-4	PAY	
850.4350	Nontarget Insect	46790205	IR-4	PAY	
850.3020	HoneyBee Acute Testing	46790205	IR-4	PAY	
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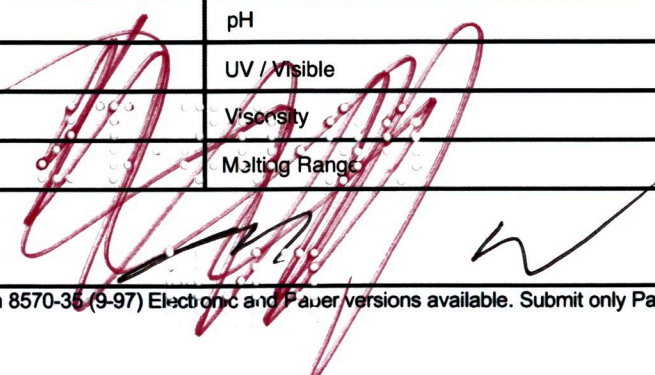
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Applicant's/Registrant's Name & Address Ag NuBio Inc., 11125 N. Ambassador Drive, Ste. 120 Kansas City MO 64153	Product BioRend	

Ingredient Chitosan (PC Code 128930) End Use Product

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6302	Color	49627601	Ag NuBio	Own	
830.6303	Physical State	49627601	Ag NuBio	Own	
830.6304	Odor	49627601	Ag NuBio	Own	
830.6313	Stability	49627601	Ag NuBio	Own	
830.6314	Oxidation/Reduction: Chemical incompatibility	49627601	Ag NuBio	Own	
830.6315	Flammability	49627601	Ag NuBio	Own	
830.6316	Explosibility	49627601	Ag NuBio	Own	
830.6317	Storage Stability		Ag NuBio	In Prog	
830.6319	Miscibility	49627601	Ag NuBio	Own	
830.6320	Corrosion Characteristics		Ag NuBio	In Prog	
830.6321	Dielectric Breakdown Voltage	49627601	Ag NuBio	Own	
830.7000	pH	49627601	Ag NuBio	Own	
830.7050	UV / Visible	49627601	Ag NuBio	Own	
830.7100	Viscosity	49627601	Ag NuBio	Own	
830.7200	Melting Range	49627601	Ag NuBio	Own	

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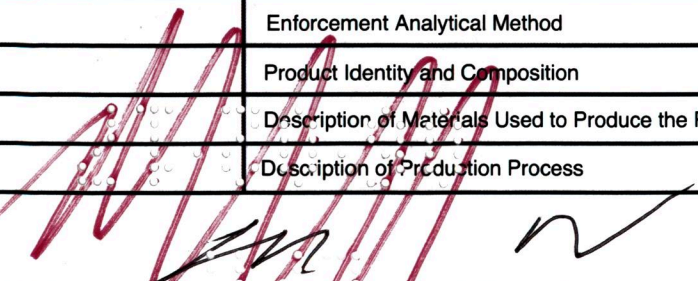
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Applicant's/Registrant's Name & Address Ag NuBio 11125 N. Ambassador Drive, Ste 120 Kansas City, MO 64153	Product Biorend	

Ingredient Chitosan (PC Code 128930) End Use Product

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7220	Boiling Range	49627601	Ag NuBio	Own	
830.7300	Bulk Density / Specific Gravity	49627601	Ag NuBio	Own	
830.7520	Particle Size / Distribution	49627601	Ag NuBio	Own	
830.7550	Partition Coefficient	49627601	Ag NuBio	Own	
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830.7950	Vapor Pressure	49627601	Ag NuBio	Own	
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Ingredient Chitosan Technical (PC Code 128930)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Glycogenesys Inc	OLD	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			AgNuBio	In Progress	
			Ag NuBio	Own	
			Ag NuBio	In Progress	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
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			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
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Ingredient Chitosan Technical (PC Code 128930)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Glycogenesys	OLD	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			IR-4	PAY	
			IR-4	PAY	
			IR-4	PAY	

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Ingredient Chitosan Technical (PC Code 128930)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
					
			Ag NuBio	Own	
			Ag NuBio	Own	
			IR-4	PAY	
			IR-4	PAY	
			IR-4	PAY	
			IR-4	PAY	
			IR-4	PAY	
			IR-4	PAY	

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Ingredient Chitosan (PC Code 128930) End Use Product

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	In Prog	
			Ag NuBio	Own	
			Ag NuBio	In Prog	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
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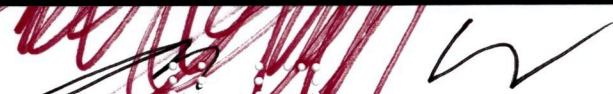


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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
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			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	
			Ag NuBio	Own	

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